

6Z

[2×6×2 / 3×8×3 / 3×9×3 / 3×10×3 mm]

Cylinder Crystal

DIP Type

Tolerance

±10ppm ~ ±30ppm

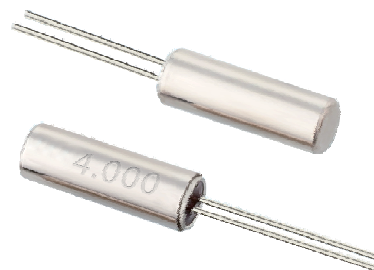
Fundamental /3rd

Frequency Range

3MHz~50MHz

Features

- Wide frequency range from 3MHz to 50MHz
- High shock tolerance
- Small size with cylinder type quartz crystal units
- Low power consuming
- Reliable frequency stability
- Applications: Bluetooth, Security, IoT, Wireless communications, Consumer electronic, PC peripherals, etc.
- RoHS Compliant



Standard Specifications

Item / Type	6Z (3×9 / 3×10 mm)	6Z (2×6 / 3×8 mm)
Frequency Range	3.579~4.000 MHz	4~50 MHz
Load Capacitance	8pF~32pF, or specify	
Drive Level	100 μW typical (500 μW max.)	
Frequency Tolerance (at 25°C)	± 10ppm, ±20ppm, ±30ppm, or specify	
Aging	±3ppm / Year (max.)	
Storage Temperature Range	-55°C~+125°C	

ESR (Equivalent Series Resistance)

6Z (Cylinder Crystal Units)			
Frequency Range	E.S.R	Frequency Range	E.S.R
3.579~4MHz	180 Ω max. Fund.	10~12MHz	60 Ω max. Fund
4~4.5MHz	150 Ω max. Fund.	12~30MHz	40 Ω max. Fund
4.5~5MHz	120 Ω max. Fund.	30~50MHz	80 Ω max. 3rd O.T.
5~7MHz	100 Ω max. Fund.		
7~10MHz	80 Ω max. Fund.		

Frequency stability Vs Operating temperature range

Temp. (°C)	ppm						
	±5	±10	±15	±20	±25	±30	±50
-10~+60	○	○	○	○	○	○	○
-20~+70	▲	○	○	○	○	○	○
-40~+85	×	▲	○	○	○	○	○

▲: Conditional
○: Available
×: Not available

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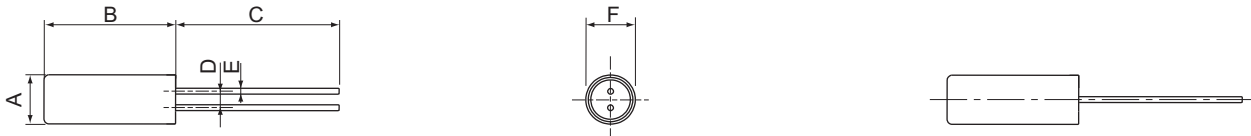
Fundamental /3rd

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Outline Dimensions (Unit: mm)

6Z (Cylinder Quartz Crystal Units)



Size	A	B	C	D	E	F
2×6	Ø2.0	6±0.3	7±0.3	0.7±0.2	0.2±0.1	Ø2.0±0.1
3×8	Ø3.0	8±0.3	10±0.3	1.1±0.2	0.3±0.1	Ø3.0±0.1
3×9	Ø3.0	9±0.3	10±0.5	1.1±0.2	0.3±0.1	Ø3.0±0.1
3×10	Ø3.0	10±0.3	9.7±0.5	1.1±0.2	0.3±0.1	Ø3.0±0.1